

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637363

Luminaire Tested: GWS-SA4C-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-760-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17766.9 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

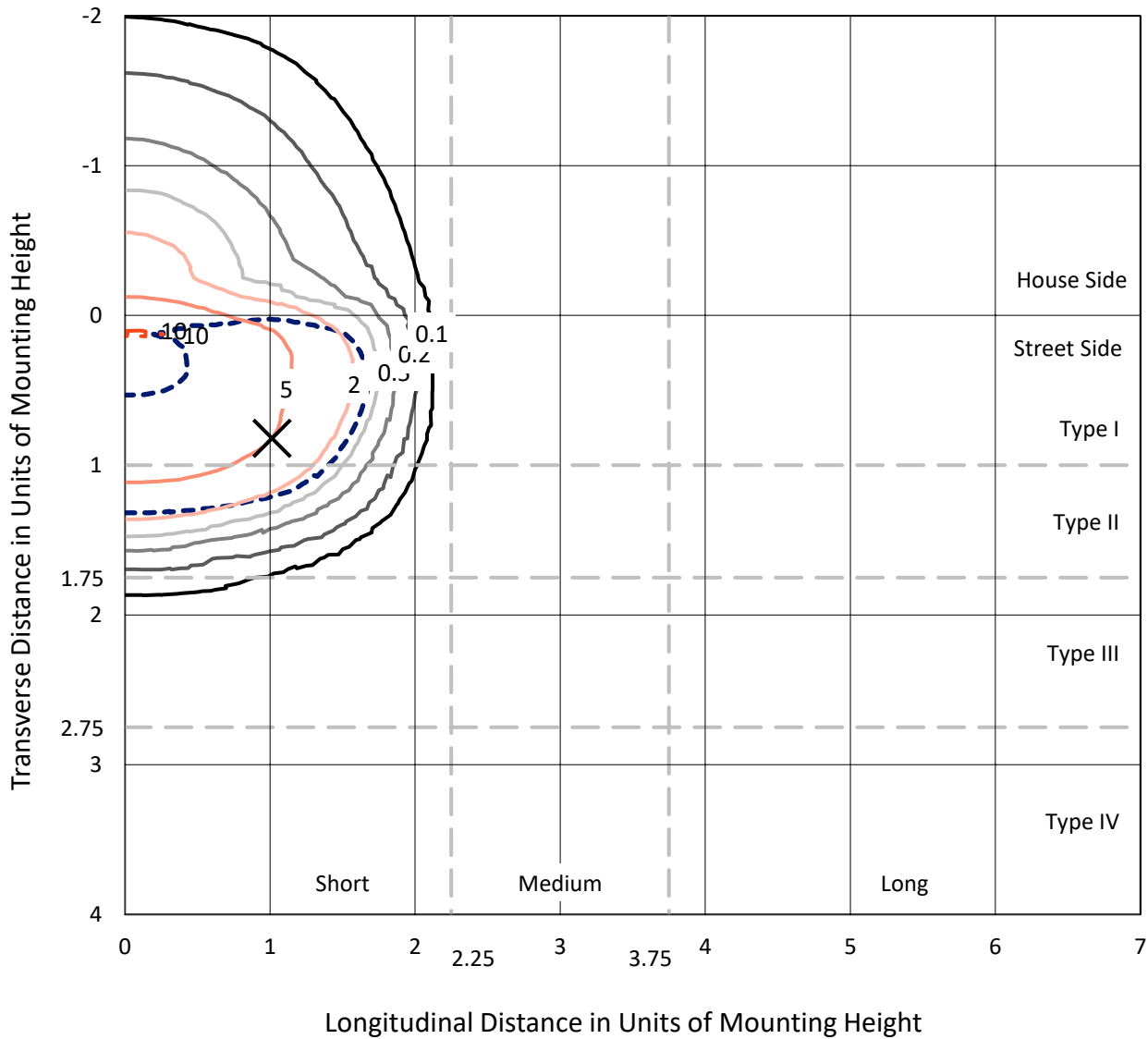
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

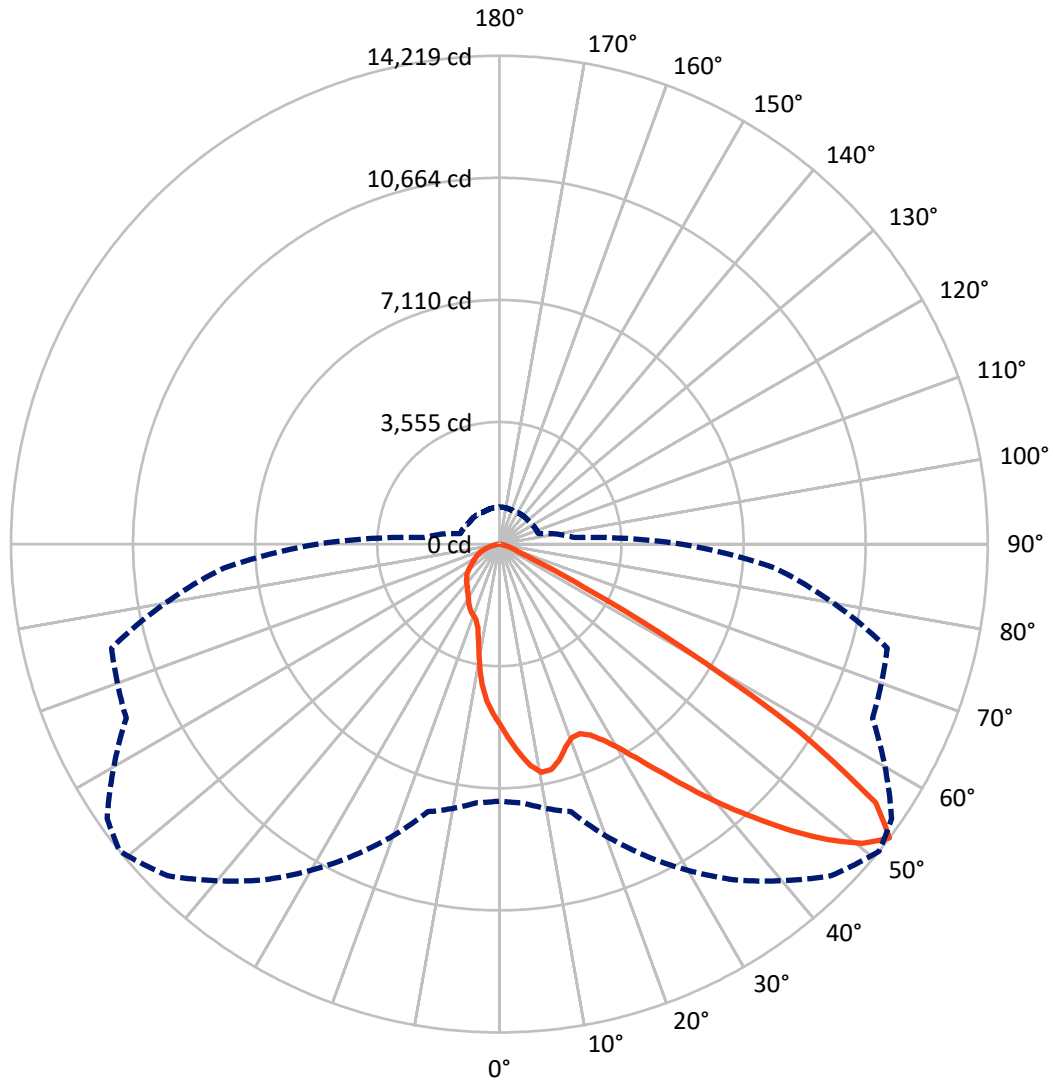
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3461.7	0.0	3461.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	14305.2	0.0	14305.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	17766.9	0.0	17766.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.6	2.8
10°-20°	1282.7	7.2
20°-30°	2085.5	11.7
30°-40°	3305.1	18.6
40°-50°	4984.8	28.1
50°-60°	4312.2	24.3
60°-70°	977.6	5.5
70°-80°	288.3	1.6
80°-90°	37.1	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	17766.9	100.0
0°-180°	17766.9	100.0

Coefficient of Utilization



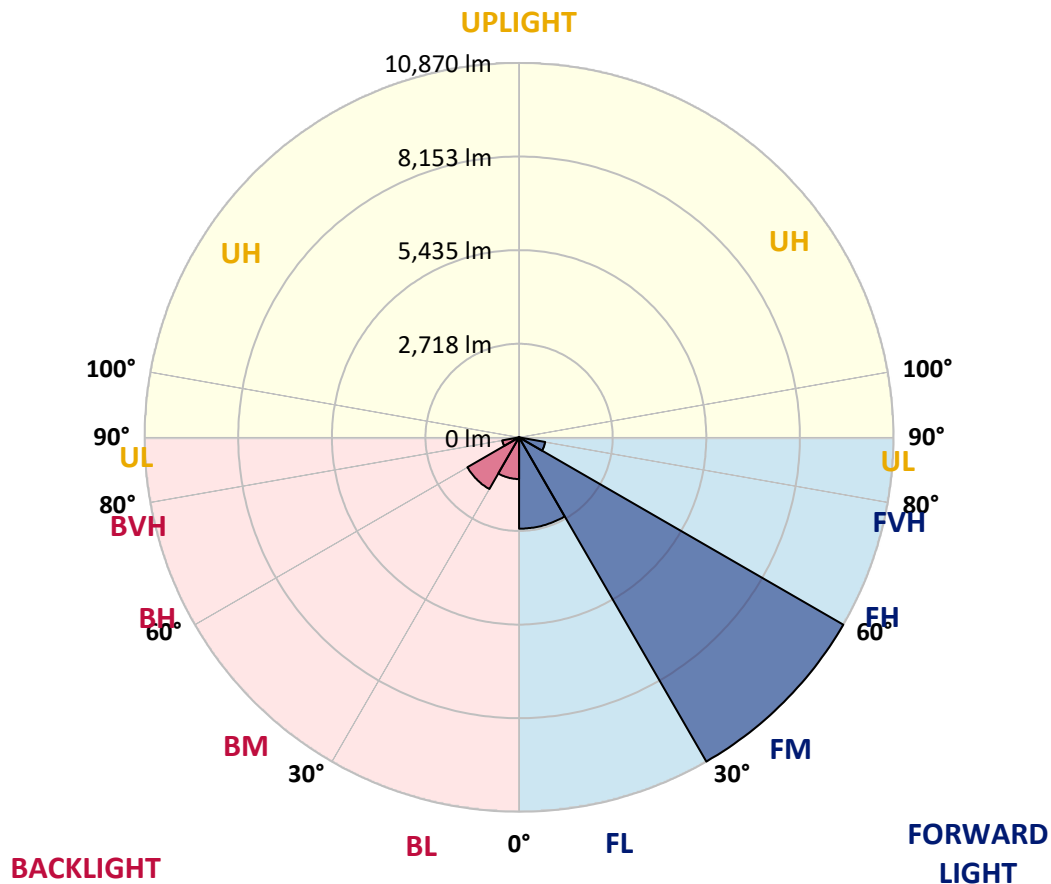
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2651.8	14.9			
FM (30°-60°)	10870.0	61.2			
FH (60°-80°)	769.4	4.3			G1/1800
FVH (80°-90°)	14.0	0.1			G1/100
BL (0°-30°)	1210.1	6.8	B3/2500		
BM (30°-60°)	1732.0	9.7	B2/2500		
BH (60°-80°)	496.5	2.8	B1/500		G1/500
BVH (80°-90°)	23.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	5290.1	5290.1	5290.1	5290.1	5290.1	5290.1	5290.1	5290.1	5290.1	5290.1	5290.1
2.5°	5895.2	5928.9	5876.9	5857.3	5825.0	5768.8	5704.3	5686.0	5547.0	5455.8	5353.3
5°	6487.7	6505.9	6463.8	6421.7	6341.7	6242.0	6117.0	6090.3	5837.6	5628.4	5410.8
7.5°	6619.6	6612.6	6649.1	6673.0	6663.2	6623.8	6512.9	6461.0	6159.1	5827.8	5506.3
10°	6097.4	6058.1	6192.8	6352.9	6545.2	6767.1	6754.4	6750.2	6487.7	6096.0	5628.4
12.5°	5405.2	5385.6	5495.1	5695.8	6059.5	6550.8	6734.8	6878.0	6783.9	6351.5	5764.6
15°	5009.3	5002.3	5076.7	5221.3	5510.5	6131.1	6524.2	6807.8	7038.0	6625.3	5909.2
17.5°	4937.7	4941.9	4967.2	5050.0	5257.8	5768.8	6223.7	6619.6	7236.0	6925.7	6090.3
20°	5146.9	5175.0	5131.4	5144.1	5256.4	5638.3	6018.7	6430.1	7362.3	7227.5	6285.5
22.5°	5611.6	5601.8	5506.3	5450.1	5451.5	5718.3	5996.3	6341.7	7445.2	7521.0	6462.4
25°	6138.1	6126.8	6013.1	5888.2	5809.6	5935.9	6157.7	6435.7	7519.6	7789.1	6604.2
27.5°	6760.0	6724.9	6598.6	6438.5	6264.4	6319.2	6469.4	6689.8	7634.7	8053.1	6698.3
30°	7362.3	7403.0	7221.9	7032.4	6848.5	6814.8	6901.8	7101.2	7869.2	8361.9	6810.6
32.5°	8161.2	8147.1	7946.4	7699.3	7436.7	7411.5	7480.3	7662.8	8290.3	8788.7	6981.9
35°	9128.5	9131.3	8846.3	8512.2	8138.7	8071.3	8186.4	8363.3	8917.9	9367.2	7252.8
37.5°	10133.7	10129.5	9881.0	9501.9	8992.3	8896.8	9028.8	9160.8	9702.7	10154.8	7674.0
40°	10838.5	10866.6	10750.1	10550.7	10067.7	9834.7	9951.2	10042.5	10556.3	11081.4	8228.6
42.5°	11238.6	11280.8	11306.0	11425.4	11171.2	10922.7	10880.6	10928.4	11318.7	11942.0	8749.4
45°	11324.3	11380.4	11564.4	12006.6	12104.9	12034.7	11897.1	11782.0	11887.3	12552.7	9090.6
47.5°	10946.6	11044.9	11438.0	12211.6	12785.8	13006.2	12853.2	12677.7	12215.8	12710.0	9055.5
50°	9450.0	9565.1	10451.0	11793.2	12882.7	13685.7	13699.8	13440.0	12176.5	12256.5	8614.7
52.5°	7481.7	7560.3	8067.1	9997.5	11932.2	13657.6	14219.2	13941.2	11986.9	11689.3	8062.9
55°	4471.6	4597.9	5071.1	6595.8	9295.6	12104.9	13301.0	13435.8	11894.3	11213.4	7686.6
57.5°	1509.2	1571.0	2023.1	2913.2	5478.2	8863.2	10276.9	10824.5	10797.8	10486.1	6952.4
60°	718.8	732.9	824.1	1104.9	2193.0	4631.6	6083.3	6715.1	7290.7	7348.3	4325.6
62.5°	547.5	556.0	602.3	662.7	881.7	1951.5	2788.2	3271.2	3494.4	2998.8	1575.2
65°	457.7	464.7	499.8	537.7	599.5	845.2	1069.8	1234.1	1111.9	866.2	751.1
67.5°	381.9	387.5	414.2	454.9	497.0	565.8	593.9	610.7	640.2	718.8	690.7
70°	299.0	304.7	332.7	367.8	408.6	425.4	452.1	468.9	527.9	629.0	626.2
72.5°	230.2	237.3	252.7	275.2	308.9	325.7	355.2	374.9	408.6	490.0	523.7
75°	168.5	172.7	186.7	193.7	198.0	193.7	223.2	245.7	290.6	321.5	329.9
77.5°	68.8	77.2	74.4	74.4	88.4	106.7	122.1	136.2	167.1	185.3	186.7
80°	28.1	30.9	36.5	40.7	49.1	63.2	73.0	78.6	92.7	103.9	112.3
82.5°	16.8	18.3	21.1	22.5	28.1	36.5	42.1	46.3	57.6	68.8	73.0
85°	8.4	8.4	9.8	11.2	14.0	16.8	19.7	22.5	29.5	36.5	40.7
87.5°	1.4	1.4	1.4	2.8	4.2	5.6	7.0	8.4	9.8	11.2	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5290.1	5290.1	5290.1	5290.1	5290.1	5290.1	5290.1	5290.1	5290.1	5290.1	5290.1
2.5°	5292.9	5217.1	5128.6	5058.4	4977.0	4916.6	4831.0	4777.6	4727.1	4685.0	4654.1
5°	5298.5	5170.8	4986.8	4824.0	4655.5	4495.5	4331.2	4197.8	4078.5	3978.8	3970.4
7.5°	5330.8	5146.9	4859.1	4574.1	4245.6	3928.3	3611.0	3352.6	3156.1	3053.6	3032.5
10°	5385.6	5144.1	4728.5	4273.6	3713.5	3202.4	2826.2	2629.6	2515.9	2475.2	2461.1
12.5°	5443.1	5137.1	4561.4	3849.6	3071.8	2624.0	2417.6	2393.7	2414.8	2417.6	2416.2
15°	5513.3	5132.8	4350.8	3352.6	2602.9	2355.8	2369.9	2420.4	2469.6	2480.8	2480.8
17.5°	5599.0	5123.0	4064.4	2866.9	2309.5	2303.9	2378.3	2445.7	2492.0	2500.4	2500.4
20°	5688.8	5097.8	3712.1	2471.0	2190.2	2271.6	2351.6	2403.6	2435.9	2447.1	2448.5
22.5°	5750.6	5030.4	3306.3	2177.5	2115.8	2209.8	2267.4	2320.7	2320.7	2292.7	2284.2
25°	5763.2	4885.8	2866.9	1976.8	2027.3	2114.4	2173.3	2142.4	2084.9	2062.4	2061.0
27.5°	5716.9	4675.2	2433.0	1833.6	1920.6	2007.7	1997.8	1952.9	1927.6	1905.2	1913.6
30°	5660.7	4422.4	2056.8	1715.6	1797.1	1882.7	1849.0	1833.6	1815.3	1790.0	1795.7
32.5°	5622.8	4140.3	1767.6	1624.4	1714.2	1728.3	1752.1	1750.7	1733.9	1686.1	1683.3
35°	5634.1	3855.3	1573.8	1550.0	1645.4	1639.8	1684.7	1676.3	1559.8	1493.8	1489.6
37.5°	5723.9	3581.5	1460.1	1491.0	1535.9	1571.0	1610.3	1509.2	1468.5	1426.4	1429.2
40°	5895.2	3327.4	1398.3	1458.7	1469.9	1521.9	1430.6	1429.2	1411.0	1373.1	1371.7
42.5°	6088.9	3112.6	1356.2	1443.3	1427.8	1437.6	1340.8	1352.0	1350.6	1326.7	1319.7
45°	6206.9	2914.6	1322.5	1385.7	1389.9	1291.6	1262.2	1274.8	1281.8	1269.2	1267.8
47.5°	6084.7	2687.2	1287.4	1297.3	1333.8	1225.7	1189.1	1190.6	1203.2	1204.6	1199.0
50°	5742.2	2433.0	1245.3	1221.4	1197.6	1156.9	1123.2	1116.1	1128.8	1141.4	1145.6
52.5°	5299.9	2190.2	1175.1	1138.6	1082.4	1082.4	1067.0	1044.5	1061.4	1078.2	1083.9
55°	4975.6	2010.5	1075.4	1034.7	972.9	994.0	991.2	971.5	994.0	1006.6	1010.8
57.5°	4311.5	1615.9	946.3	933.6	881.7	907.0	912.6	887.3	876.1	878.9	883.1
60°	2559.4	1043.1	853.6	852.2	805.9	835.4	852.2	826.9	793.2	797.4	803.1
62.5°	1148.4	797.4	737.1	731.5	730.1	768.0	786.2	762.3	714.6	718.8	724.4
65°	723.0	689.3	640.2	640.2	662.7	695.0	709.0	689.3	634.6	627.6	633.2
67.5°	671.1	641.6	591.1	581.2	592.5	619.1	620.5	582.6	550.3	544.7	544.7
70°	602.3	579.8	530.7	511.0	506.8	505.4	501.2	491.4	470.3	464.7	467.5
72.5°	498.4	483.0	452.1	431.0	419.8	418.4	401.5	393.1	374.9	372.0	370.6
75°	329.9	334.1	334.1	331.3	321.5	317.3	299.0	290.6	269.6	261.1	259.7
77.5°	195.1	199.4	205.0	206.4	205.0	205.0	188.1	178.3	157.2	146.0	143.2
80°	119.3	122.1	125.0	129.2	123.5	119.3	103.9	94.1	84.2	77.2	75.8
82.5°	77.2	80.0	81.4	84.2	81.4	75.8	63.2	57.6	50.5	44.9	43.5
85°	43.5	44.9	47.7	47.7	43.5	39.3	32.3	28.1	23.9	21.1	21.1
87.5°	15.4	15.4	15.4	16.8	14.0	12.6	8.4	5.6	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)